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HDR-PJ580V

Record full HD 1920 x 1080p video plus shoot 20.4MP photos with the HDR-PJ580V Handycam® camcorder. Share your memories anytime, anywhere with the built-in projector. Advanced Manual controls enhance creativity and CinemaTone presets provide cinema quality shooting. Store up to 11 hours of recording with built-in 32GB[1] memory.

Bullets

- 1920x1080 Full HD 60p/24p Recording w/20.4 MP still image
- Project up to 100"(diag) videos with built-in projector
- Up to 11 hours of recording with 32GB[1] embedded Flash Memory
- Optical SteadyShot™ image stabilization w/ Active Mode
- CinemaTone presets and 24p recording for cinematic quality video
- Advanced controls with expanded focus, zebra, and peaking
- Wide Angle G Lens to capture everything you want
- Back-illuminated Exmor R® CMOS sensor for superb low-light video
- 12x Optical/20x Extended Zoom to get even closer to the action
- 3.0" Xtra Fine LCD™ display (921K) w/TruBlack™ technology
- Manual Control (Iris/Shutter/Exposure/White Balance)
- Face detection with voice enhancement and noise reduction
- Tracking Focus follows selected subjects
- 5.1ch Surround mic for vivid and dynamic surround sound
- Auto wind noise reduction for clear voice recording
- Expanded recording/monitoring with mic/headphone jack
- Active Interface Shoe to attach intelligent accessories
- Event Browse groups video/stills by events automatically
- Highlight Playback creates movies with transitions for you
- S-Master™ digital amplifier for true and dynamic sound
- Clear Phase stereo speakers for true-to-life audio playback
- Geotagging with built-in GPS receiver & NAVTEQ® maps
- Direct Copy to external HDD without PC[13]
- Built-in USB cable for easy file transfer/charge
- Intelligent Auto (180 different scene combinations possible)
- Golf Shot
- Built-in Flash

Features

1920x1080 Full HD 60p Recording w/20.4MP still image capture

The Sony® HDR-PJ580V offers 1920 x 1080 high definition resolution letting you record your memories in exceptional Full High Definition quality. Capable of 60p recording and playback via HDMI™ and compatible HDTV[4] providing stunning clarity and incredibly detailed and smoother playback of your memories.

Built-in High-Contrast Projector

The high-contrast projector built-in to the LCD panel gives you the freedom to share your favorite memories virtually anywhere. Powerful enough to project up to a 100" diagonal screen, this small mobile theater packs a powerful punch. Combined with advanced Clear Phase stereo speakers, your memories will come alive for you and those you're sharing with.

32GB embedded Flash Memory for up to 11 hours of recording[1]

The built-in 32GB[1] embedded Flash memory can record and store up to 11 hours of high definition video footage (HD LP mode).

Optical SteadyShot™ image stabilization w/ Active Mode

Optical SteadyShot™ image stabilization with Active Mode compensates for greater degrees of camera shake to deliver stunningly smooth video from wide angle to full telephoto shooting. In addition, innovative 3-Way Shake-Canceling adds electronic roll stability for even smoother video capture.

CinemaTone presets and 24p recording for cinematic quality video

For extra control over image expression, CinemaTone technology is used to deepen the color and recreate film-like color tones. Combined with 24p recording, you'll have some of the tools you need to fulfill your need for cinematic expression.

Advanced controls with expanded focus, zebra, and peaking

The HDR-PJ580V provides advanced capture and control features that are often considered the domain of professional cameras including expanded focus for precise manual focus control, zebra and peaking for precision focus and exposure adjustments.

Wide Angle G lens to capture more of what you want

Experience the pinnacle of Sony® lens technology with the professional-quality G Lens. Engineered for superior optical performance, Sony G lenses deliver brilliant, accurate color reproduction and sharp, amazingly detailed images. In addition, the 26.8mm focal length in Photo and Video Modes offers a broader perspective for enhanced wide angle shooting.

Back-illuminated Exmor R® CMOS sensor for superb low-light video

Experience stunning low-light sensitivity with improved image clarity and drastically reduced grain with Sony's back-illuminated Exmor R® CMOS sensor. Designed for compact cameras and camcorders, the Exmor R® CMOS sensor relocates the photo diodes above the support circuitry, maximizing the light gathering area per pixel so you can shoot with better results in lower lighting conditions.

20x Extended Zoom to get even closer to the action

Extended Zoom works in conjunction with 12x optical zoom to get even closer to the action while maintaining HD image quality.

3.0" touch-screen Xtra Fine LCD™ display (921K) w/TruBlack™ technology

The 3.0" (16:9) Xtra Fine LCD™ screen (921K) displays sharp, bright, vivid images, letting you compose a shot more easily -- even outdoors, while enabling you to change settings to best represent the scene. TruBlack™ technology brings remarkably higher contrast delivering more natural, realistic colors and easier viewing in bright conditions by reducing glare.

Tracking Focus follows selected subjects in/out of the frame

Tracking Focus works as an extension of Face Detection to allow you to select an object with a touch of the LCD and have the focus follow the selected object, even if it leaves the frame and returns.

5.1ch Surround mic for vivid and dynamic surround sound.

Dolby® Digital 5.1 channel recording captures active sounds coming from all directions, so you can experience your home movies the way you experienced them while recording.

Wind noise reduction for clear voice recording

Wind Reduction reduces noise and interference that is produced when wind passes over the microphone, giving you a clearer and more enjoyable sound experience.

Expanded recording/monitoring with mic/headphone jack

Features dedicated mic and headphone inputs for expanded audio recording options and convenient monitoring of audio with headphones (external microphones and headphones sold separately).

Active Interface Shoe to attach intelligent accessories

The Active Interface Shoe lets you mount Intelligent Accessories, such as external lights and microphones, which can help extend the capabilities of your camcorder.

Event Browse groups photos/videos for you for easy reference

Event Browse conveniently groups your images and videos together for easier viewing. The date range that Event Browse groups your pictures and videos is easily adjusted to suit your needs. When used with the Highlight Playback feature, making and sharing a highlight reel from your event is easy and fun.

Highlight Playback creates movies with transitions for you

Why spend hours editing your movies when you can let your camcorder do it for you? Highlight Playback identifies and compiles key scenes into a short, entertaining movie complete with music and transitions. You can even pinpoint the exact scene you want to include in the highlight reel.

Clear Phase stereo speakers for true and dynamic sound

Bring your video alive with Clear Phase stereo speakers. Drawing on Sony's high-end audio expertise, renown S-Master™ digital amplifier technology is utilized to produce more true-to-life sound.

Geotagging with built-in GPS receiver & NAVTEQ® maps[7]

A built-in GPS receiver[7] makes the HDR-PJ580V an ideal choice for travelers. The receiver gives you the ability to view your current location on the LCD map display, as well as "tag" your shooting locations. Tagged videos and still images can be reviewed and played back using the Map Index function on the camcorder or once downloaded to your PC using the supplied PlayMemories Home software[9]. Additionally, the receiver automatically adjusts your camcorder's clock to the proper time zone.

Direct Copy to external HDD without PC[13]

Store your memories in a whole new way with the ability to copy videos from your camcorder directly to an external hard disk drive[13] (sold separately), all without a computer. Your camcorder can also access videos stored on the external hard drive for playback on your HDTV[4], allowing you to utilize the camcorder's handy playback features.

Built-in USB cable for easy file transfer/charge

The high-speed, built-in USB 2.0 cable allows for easy connection to your computer for charging or file transfer without having to remember separate cables. It also fits conveniently into the hand strap so it's out of the way until you need it. Charging your camcorder is faster than ever now through the USB; for every two minutes of charge time you get one minute of recording time

Intelligent Auto (180 different scene combinations possible)

Intelligent Auto mode goes a step beyond traditional auto modes by analyzing your shot and then automatically selecting the appropriate settings from ten distinct scene modes and wind noise reduction. There are 180 different combinations possible: Landscape, Backlight, Twilight, Spotlight, Low light, Macro, Portait, Baby, Walk, Tripod, Wind Noise Reduction. Thie camcorder utilizes an advanced sound processor and sophisticated noise reduction algorithms to reduce wind noise by up to 10db compared to other models. In addition to reducing low frequency noise, iAuto also suppresses mid- and upper-frequency noise, resulting in clearer, more enjoyable sound.

Golf Shot

Building on the slow-motion capture capabilities of Smooth Slow Record, Golf Shot captures a few seconds of motion as a sequence of up to 22 still images, which can be viewed/printed individually or as a composite "sequence shot" image, perfect for analyzing the nuances of a golf swing, tennis serve, and other fast action.

Built-in Flash

The built-in flash will assist in shedding light on your subject when shooting still photos.

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Specifications

Camera	
Camera Type	Digital HD Video Camera Recorder
Imaging Sensor	
Imaging Sensor	1/3.91" (4.6mm) Back-illuminated Exmor R® CMOS Sensor
Processor	BIONZ™ Image processor
Pixel Gross	Approx. 5430K pixels
Effective Picture Resolution	Approx. 5020K pixels (16:9)
Color Filter System	ClearVid™ array
Recording	
Media Type	Internal Flash Memory; Memory Stick PRO Duo ™ (Mark 2); Memory Stick PRO-HG Duo ™; SD/ SDHC/ SDXC Memory Card (Class 4 or Higher)
Still Image Mode	JPEG
Still Image Max Effective Resolution	20.4 megapixels
Still Image Size 16:9	Movie mode: 20.4 megapixels 16:9 (6016x3384); Photo mode: 20.4 megapixels 16:9 (6016x3384)
Still Image Size 4:3	Movie mode: 15.3 megapixels 4:3 (4512x3384); Photo mode: 15.3 megapixels 4:3 (4512x3384)
Video Format	HD: MPEG4-AVC/H.264 AVCHD 2.0 format compatible (1080/60p:original format); STD: MPEG2-PS
Video Mode	HD PS: Approx. 28Mbps / FX: Approx. 24Mbps / FH: Approx. 17Mbps / HQ: Approx. 9Mbps / LP: Approx. 5Mbps; STD HQ: 9Mbps
Video Resolution	HD: 1920x1080/60p (PS), 24p, 60i (FX, FH), 1440x1080/60i (HQ, LP); STD: 720x480/60i
Video Actual (Pixel)	Approx.5,020K pixels(16:9), Approx.3,760K pixels(4:3)
Video Signal	NTSC color, EIA standards
Recording and Playback Times (in Internal Media)(2ch)	HD PS: Approx. 2h20m (Approx. 2h20m); HD FX: Approx. 2h45m (Approx. 2h45m); HD FH: Approx. 3h50m (Approx. 2h45m); HD HQ: Approx. 6h50m (Approx. 6h10m); HD LP: Approx. 11h55m (Approx. 7h5m); STD HQ: Approx. 7h5m (Approx. 6h35m)
Photo Capture from Movie	2.1 megapixels 16:9 (1920x1080); 0.3 megapixels 4:3 (640x480); 0.2 megapixels pixels 16:9 (640x360)
Dual Record	20.4 megapixels 16:9 (6016x3384); 10.0 megapixels 16:9 (4224x2376); 2.1 megapixels 16:9 (1920x1080)
Audio Format	Dolby® Digital 5.1ch, Dolby® Digital 5.1Creator; Dolby® Digital 2ch Stereo, Dolby® Digital Stereo Creator
Microphone/ Speaker	Built-in Zoom Microphone; Clear Phase Stereo Speaker
Internal Media	Flash Memory 32GB
Mic Level Control	Yes (2steps)
Recording and Playback Times (in Internal Media)(5.1ch)	HD PS: Approx. 2h20m; HD FX: Approx. 2h45m; HD FH: Approx. 3h45m; HD HQ: Approx. 6h40m; HD LP: Approx. 11h35m; STD HQ: Approx. 6h55m
Still Image File Format	DCF Ver. 2.0 compatible, Exif Ver. 2.3 compatible, MPF Baseline compatible
Wind Noise Reduction	Yes (Off /On)
Optics/Lens	
Lens Type	G Lens™
Lens Stabilization	Optical SteadyShot™ image stabilization w/ Active mode (Wide to Tele)
Aperture	F1.8-3.4
Optical Zoom	12x
Digital Zoom	160x
Focal Length (35mm equivalent)	Movie Mode: 26.8mm - 321.6mm (16:9), 32.8mm-393.6mm (4:3); Photo Mode: 26.8mm - 321.6mm (16:9), 32.8mm-393.6mm (4:3)
Filter Diameter	30mm
Minimum Focus Distance	Approx. 1cm (Wide), Approx. 50cm (Tele), Approx. 25cm (Tele Macro)
Extended Zoom	20x
Focal Distance	f = 2.9mm - 34.8mm; f =1/8inch - 1 3/8inch
Steady Shot Mode:Active	29.1-582.7mm
LCD Display	
LCD Type	3.0" Xtra Fine LCD™ display (921K) w/ TruBlack™ technology
Angle Adjustment	Opening Angle: max. 90 deg., Turning Angle: max. 270 deg.
Brightness Control	Yes (Menu)
Coverage	1
Grid Display	Guide Frame
Touch Panel	Yes
Focus Control	
Focus System	Contrast AF
AF Modes	Auto / Manual (Touch Panel / Dial)
Focus Area	Full range Focus / Spot Focus
Manual Focus Assist	Magnified display for precise manual focus; Peaking Display
Focus Features	Tracking Focus
AF Illuminator	Yes
Exposure System	
Metering Modes	Multi-segment / Spot
Exposure Settings	Auto; Flexible Spot (Touch Panel)
Scene Mode(s)	Auto / Twilight / Twilight Portrait (Photo Mode only) / Sunrise & Sunset / Fireworks / Landscape / Portrait / Spotlight / Beach / Snow
D-Range Optimizer	Yes
Noise Reduction	Yes

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White Balance Mode	Auto / Onepush / Outdoor / Indoor
Minimum Illumination	Standard: 6 lux (1/60 Shutter Speed); Low Lux: 3 lux (1/30 Shutter Speed)
Auto Iris Control	F1.8 - F10
Backlight Compensation	Yes (Auto)
Gain Control	Auto

LOW LUX Mode	Yes
Drive System	
Drive Mode	Photo Mode: Single-shot / Self-timer
Self-timer	10sec.(Still Image/ Golf Shot)

1. 1GB equals 1 billion bytes, a portion of which is used for data management functions

4. Requires HDTV and HDMI cable sold sep.

7. Map service provided by Google and subject to change without notice.

9. For PC: Requires Microsoft® Windows® XP SP3/ Windows V ista® SP2/Windows 7. For Mac: Requires Mac OSX (v10.5-10.7)

13. Requires via VMC-UAM1 cable (sold separately), AC power for camcorder, and hard drive formatted in FAT-32. USB-hub not supported. External HHD/USB media should be less than 2TB(Terabytes)

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